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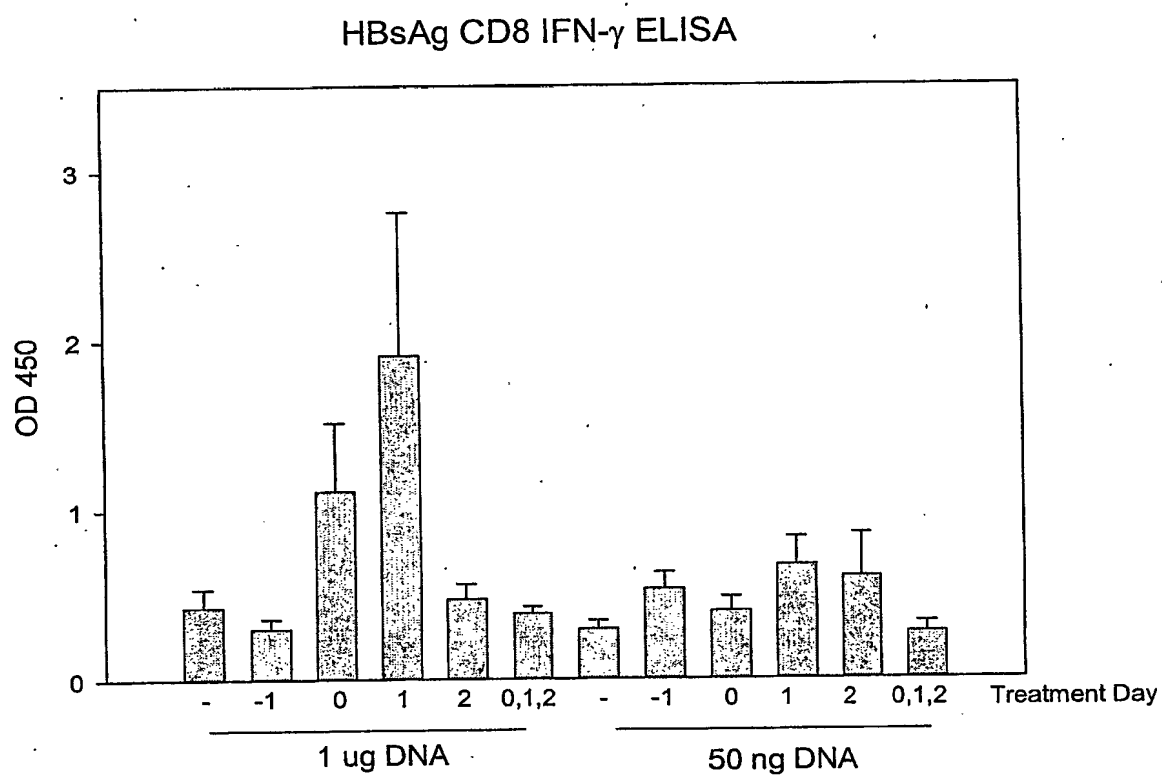


Figure 1

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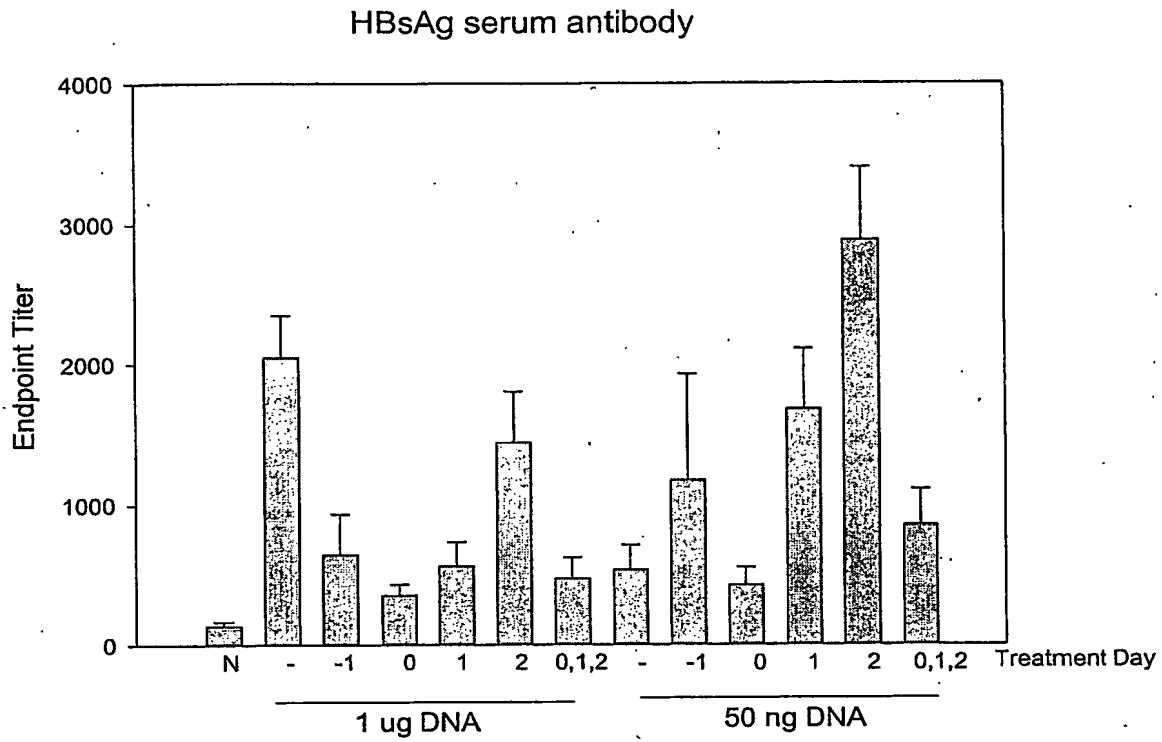
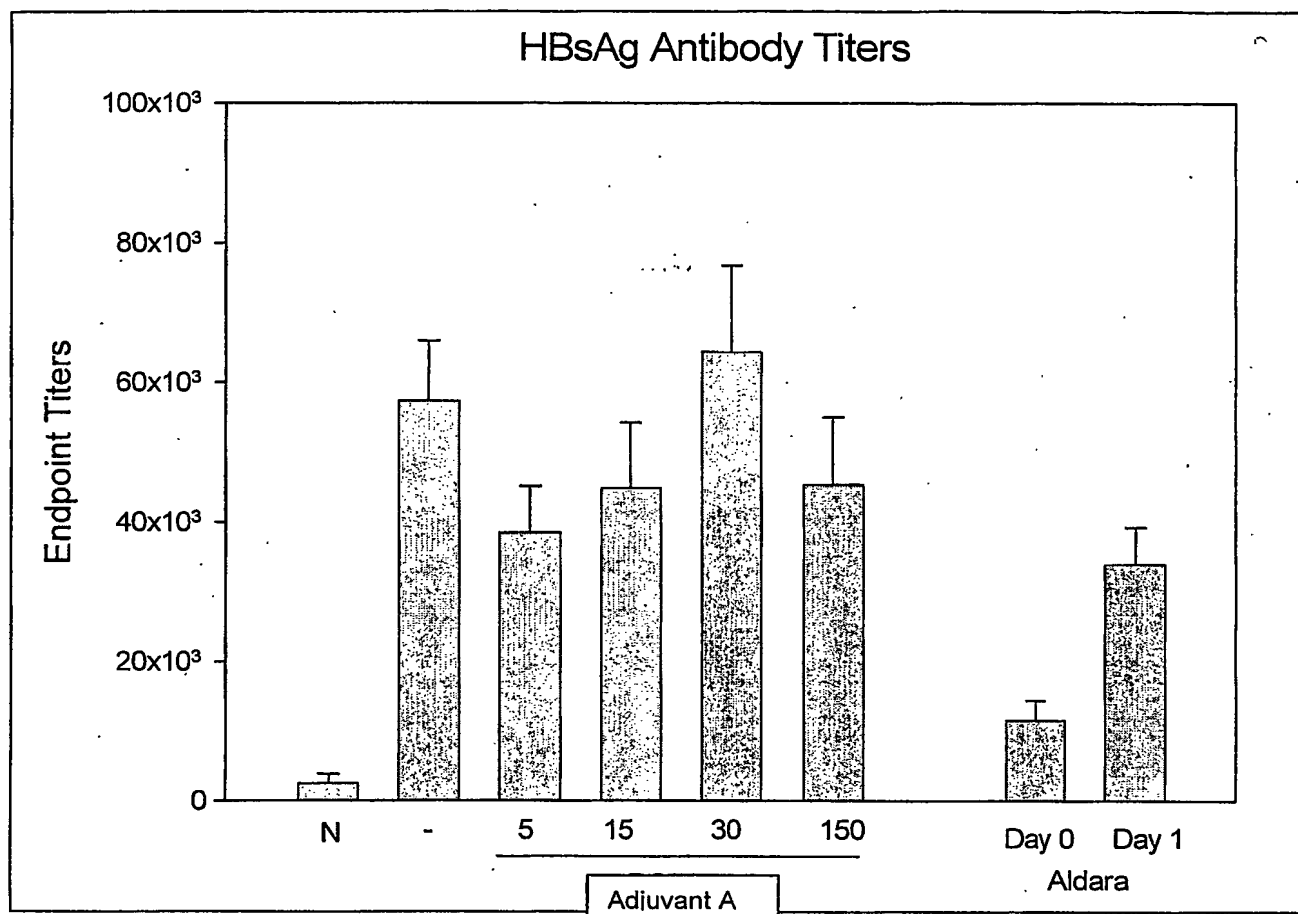


Figure 2

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**Figure 3**

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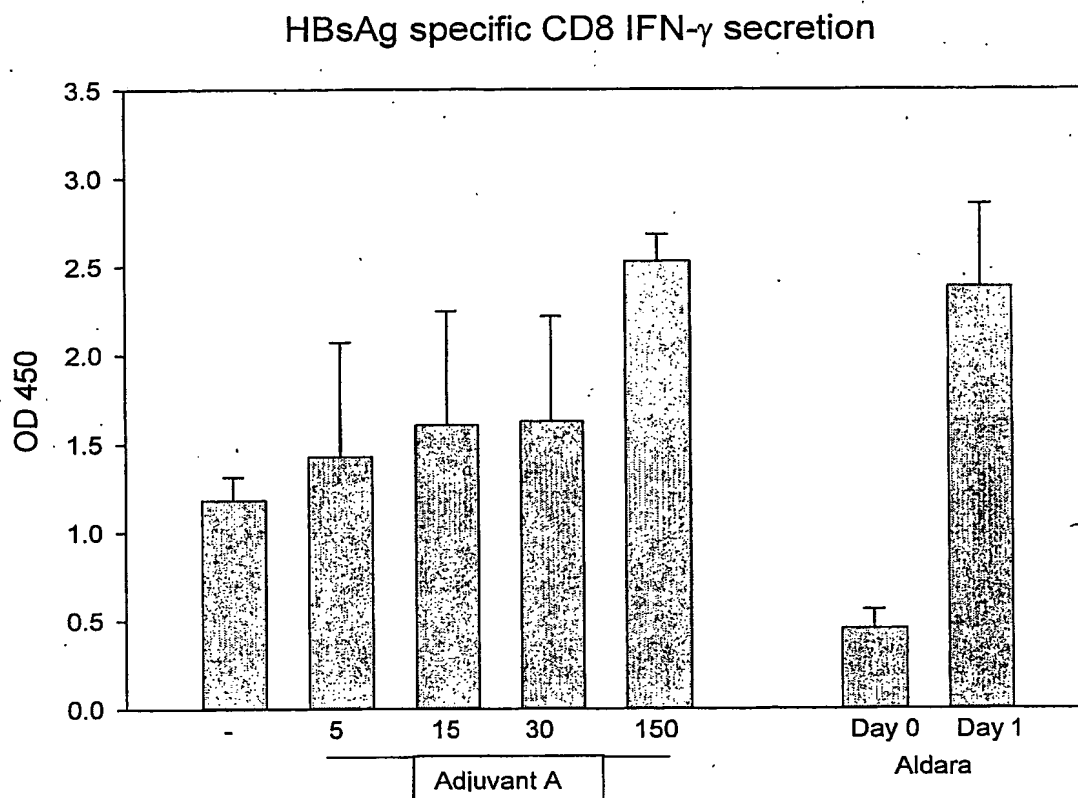


Figure 4

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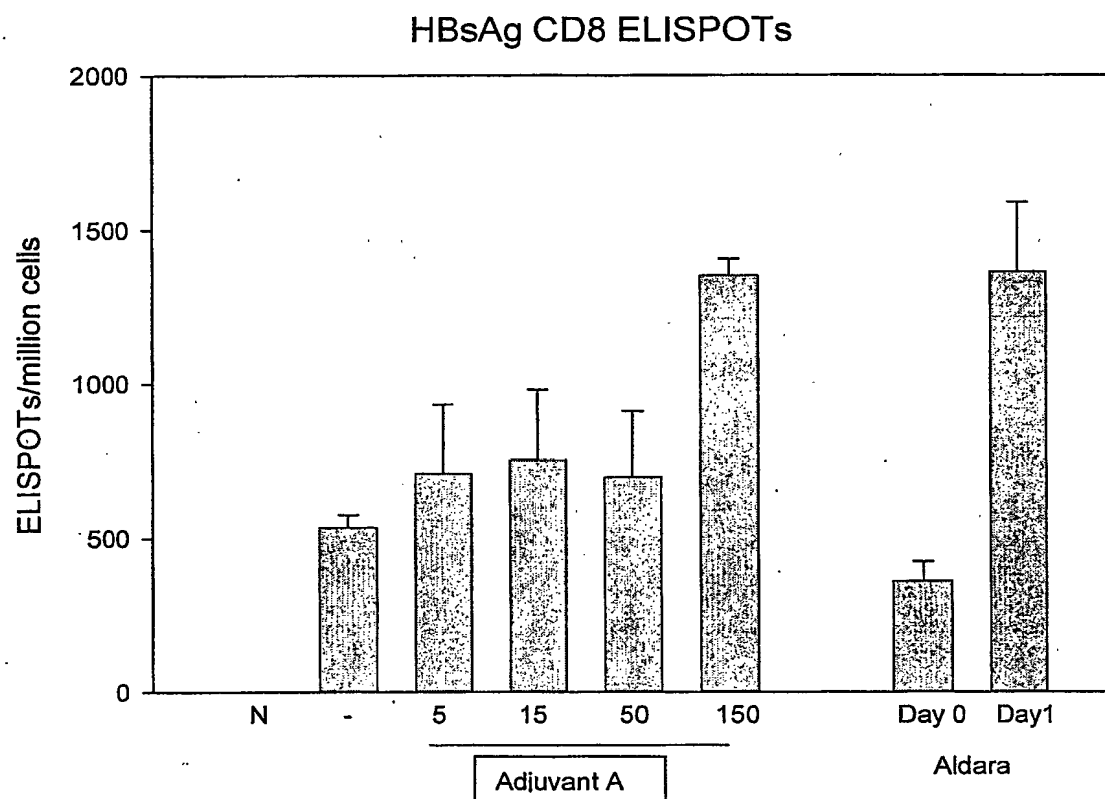


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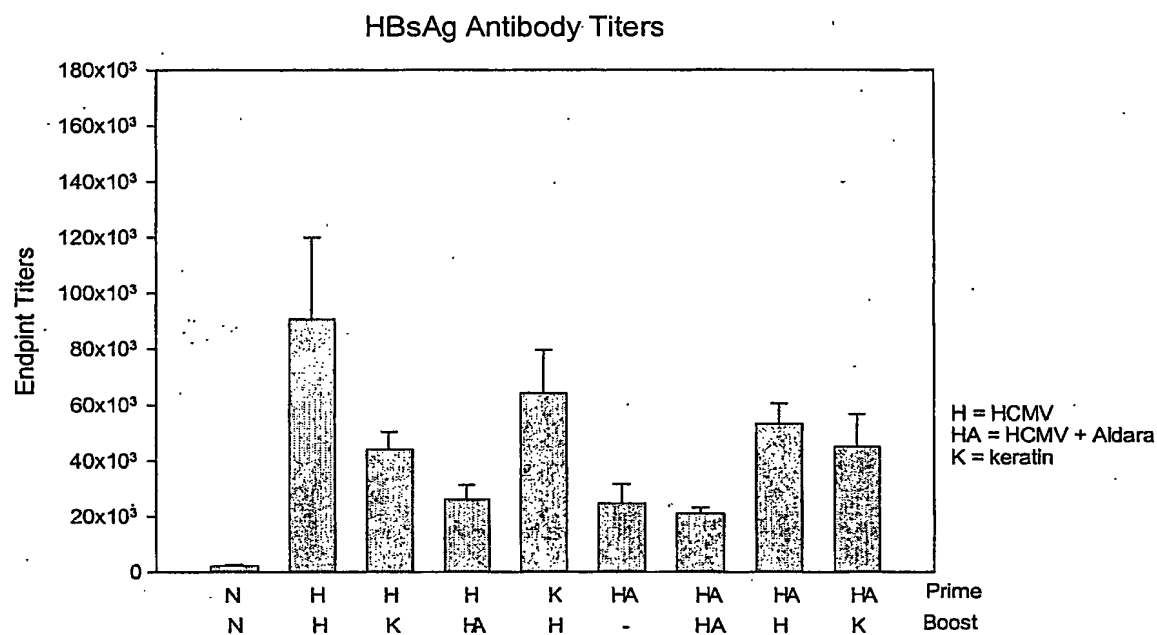


Figure 6

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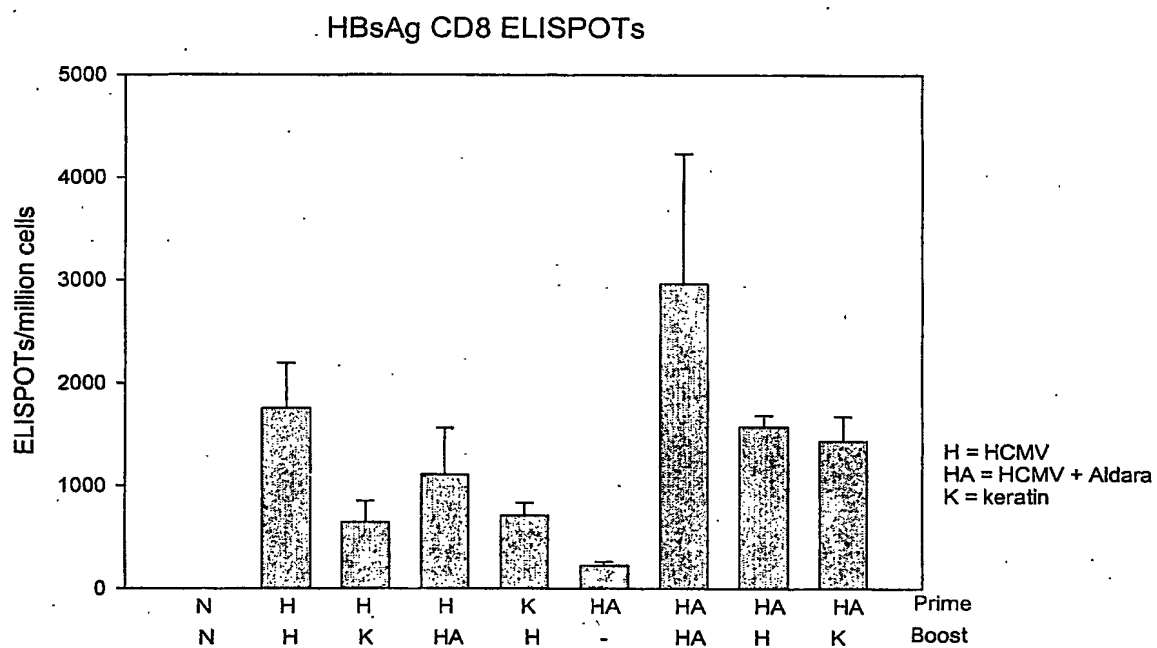


Figure 7

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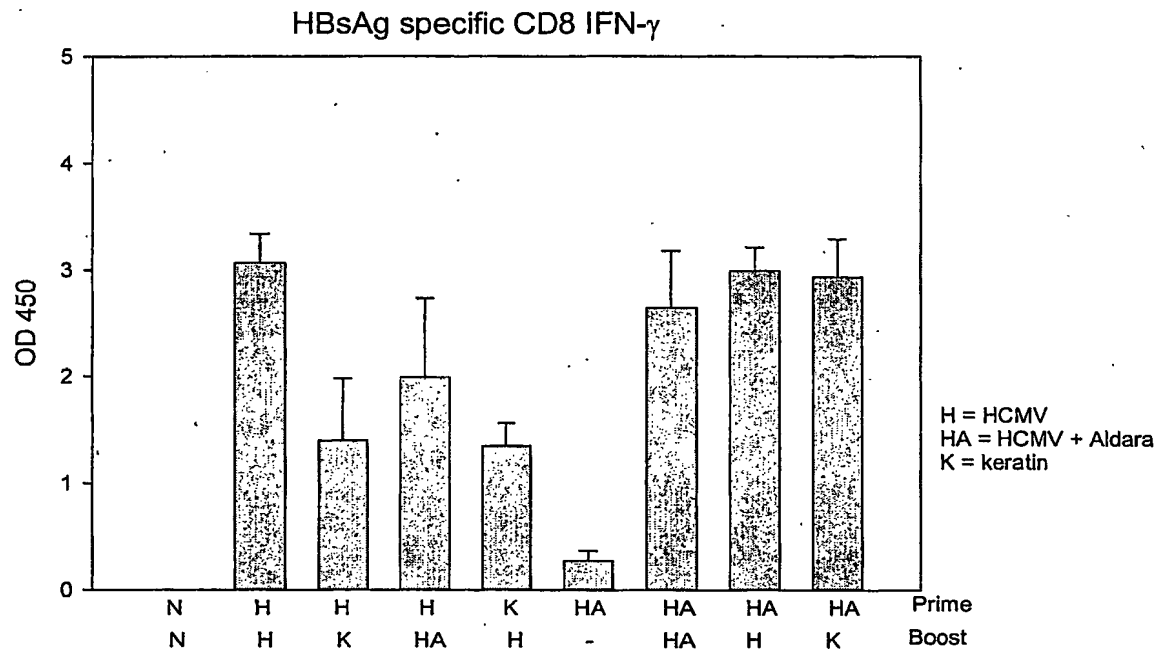


Figure 8

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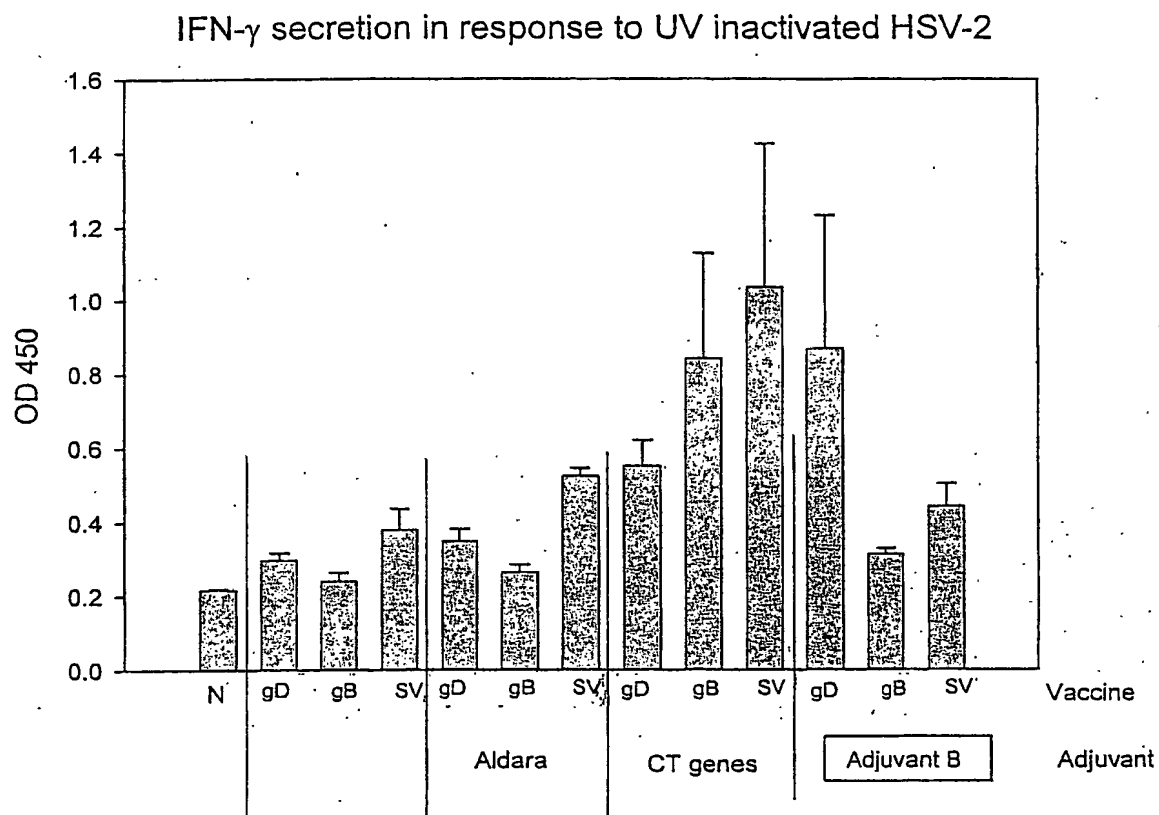


Figure 9

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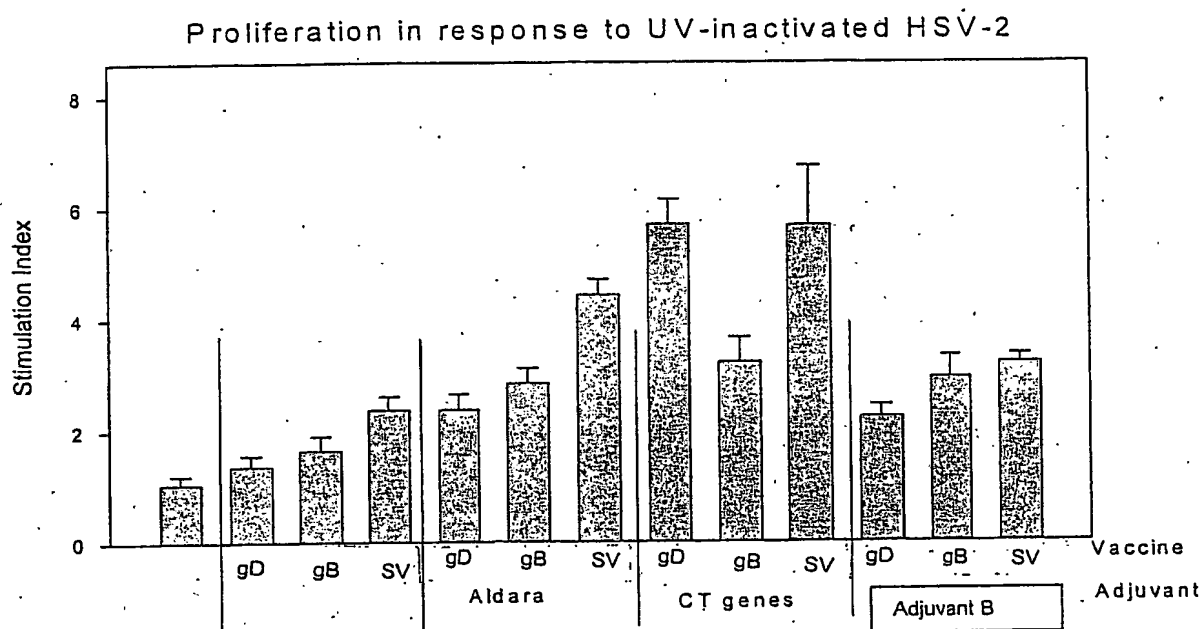


Figure 10

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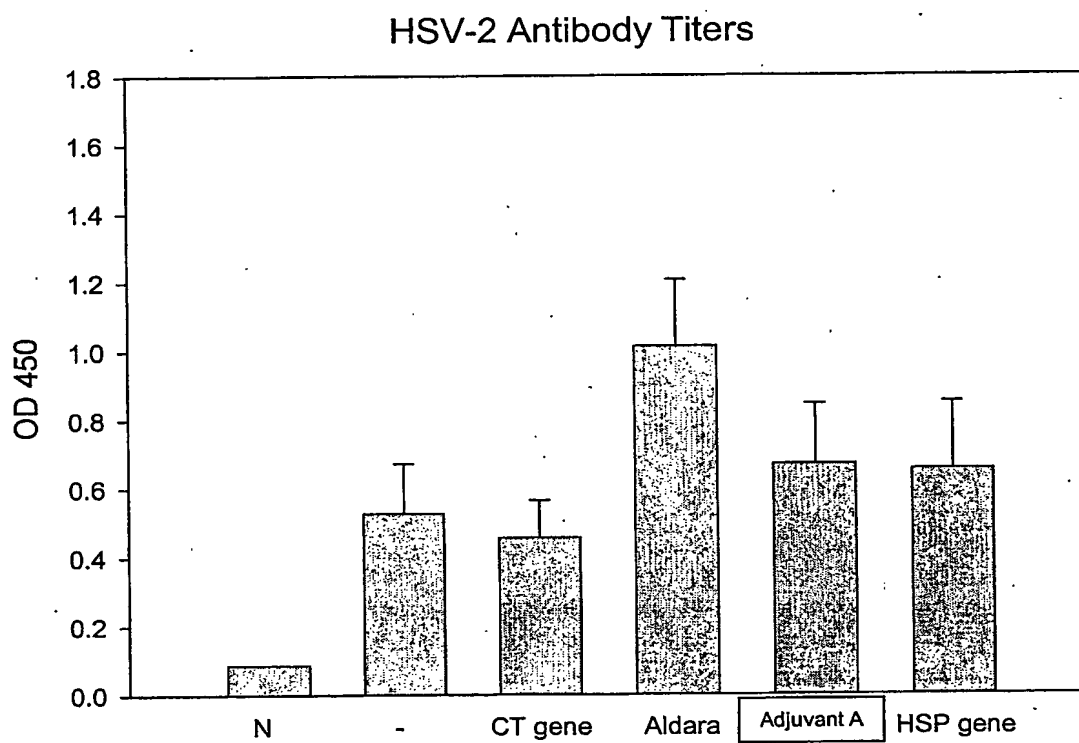


Figure 11

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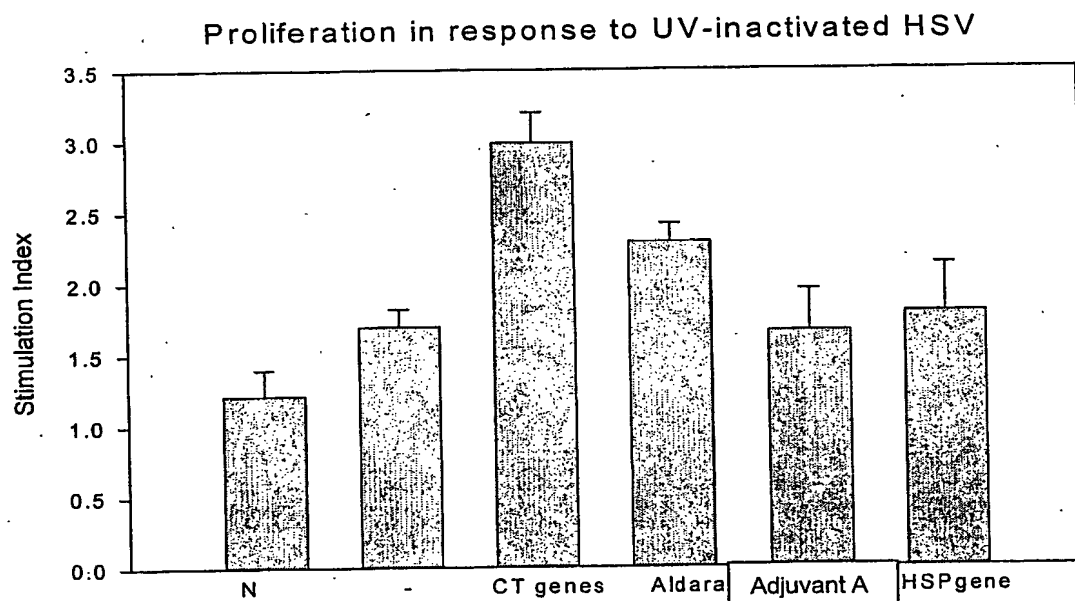


Figure 12

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ICP27 CD8 ELISPOTs

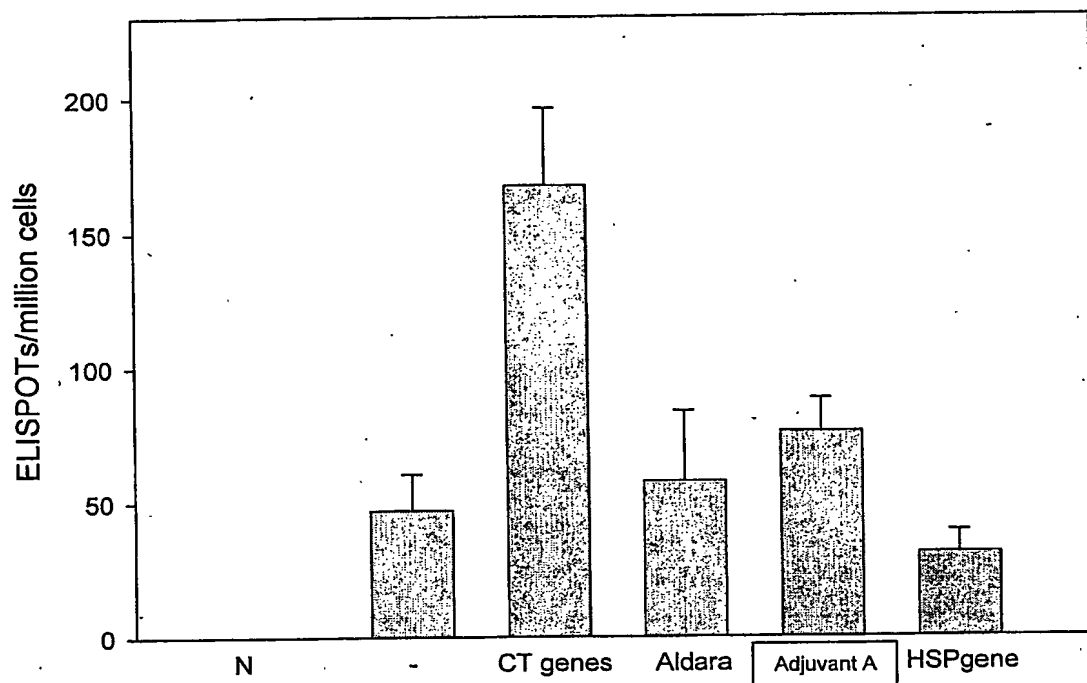


Figure 13

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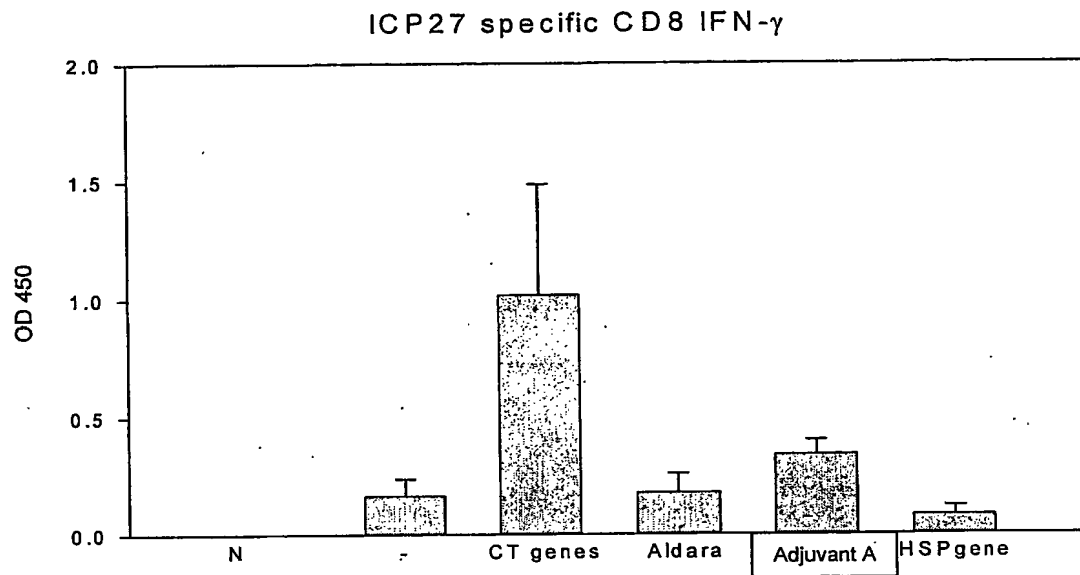


Figure 14

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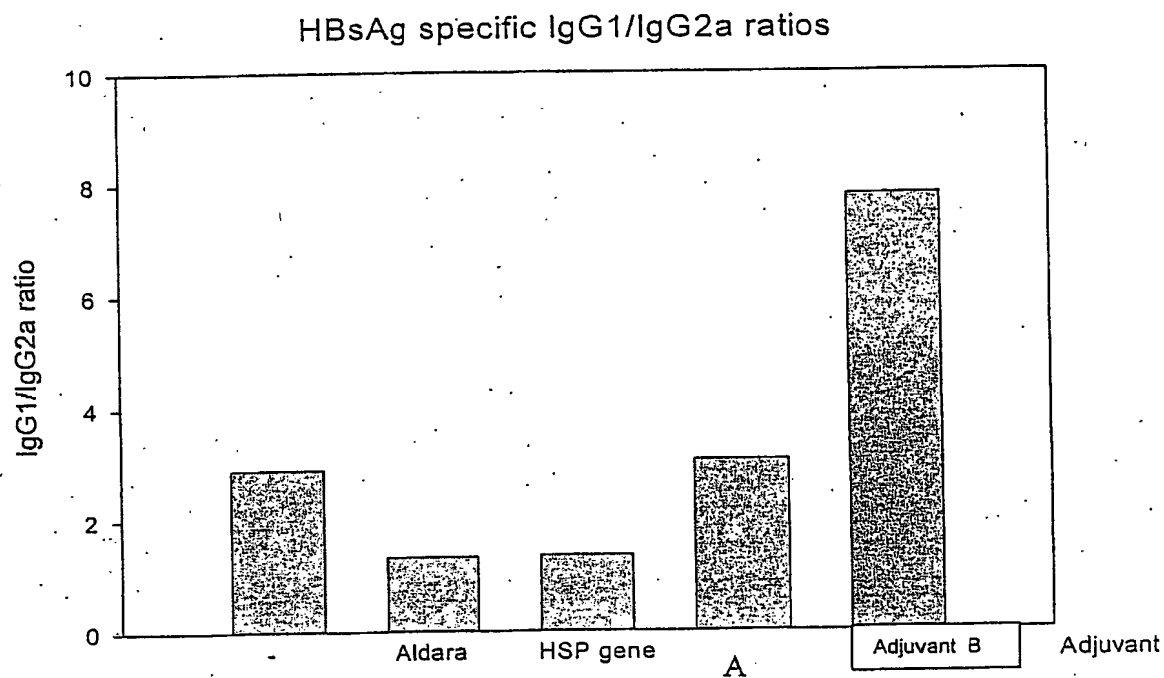


Figure 15

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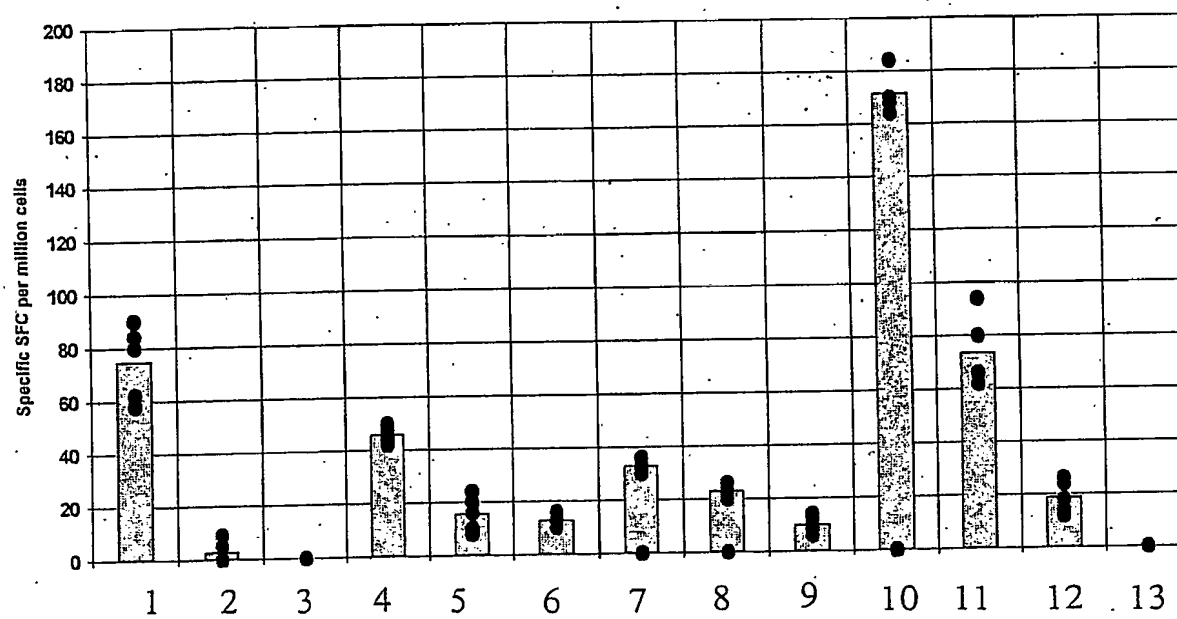


Figure 16

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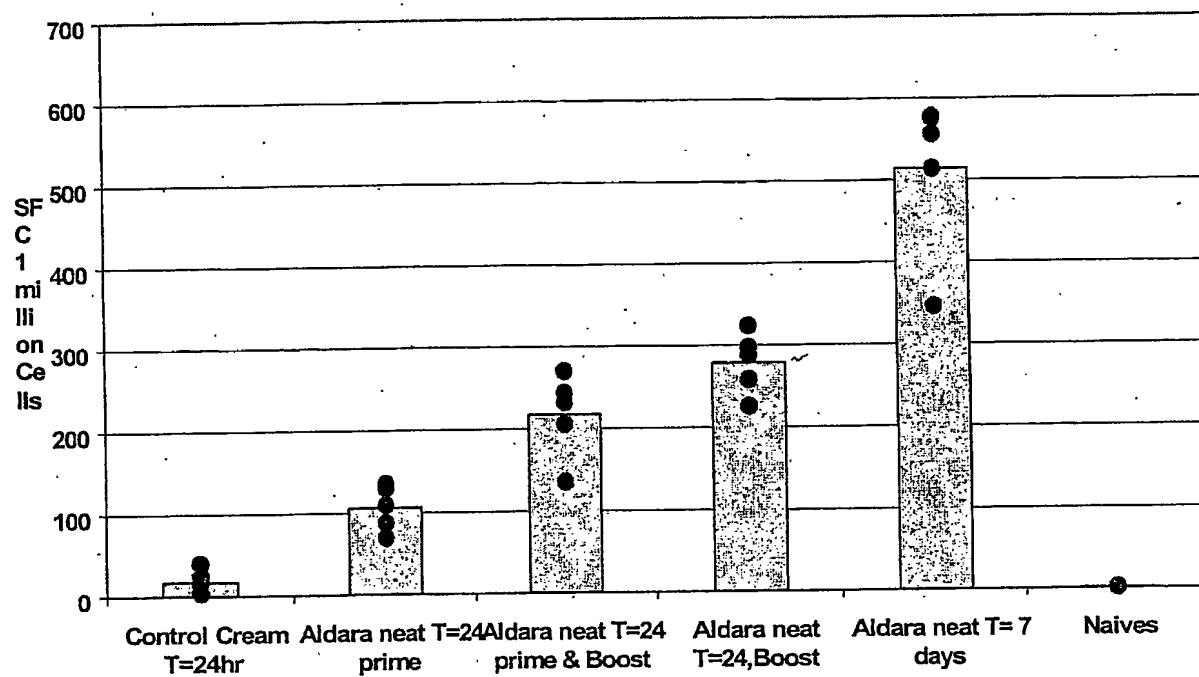


Figure 17

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Figure 19

Sequence of p55 gag insert in pGagOptrpr2

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AACGGTTTGGCGTGAACCCAGGCCTGCTGGAAACATCTGAGGGATGTCGCCAGATCCTGGGG
CAATTGCAGCCATCCCTCCAGACCGGGAGTGAAGAGCTGAGGTCCTTGTATAACACAGTGGC
TACCCTCTACTGCGTACACCAGAGGATCGAGATTAAGGATACCAAGGAGGCCTTGACAAAA
10 TTGAGGAGGAGCAAAACAAGAGCAAGAAGAAGGCCAGCAGGCAGCTGCTGACACTGGGCAT
AGCAACCAGGTATCACAGAACTATCCTATTGTCCAAAACATTCAGGGCCAGATGGTTCATCA
GGCCATCAGCCCCCGGACGCTCAATGCCTGGGTGAAGGTTGTCTGAAGAGAAAGGCCTTTTCTC
CTGAGGTTATCCCCATGTTCTCCGCTTTGAGTGAGGGGGCCACTCCTCAGGACCTCAATACA
ATGCTTAATACCGTGGGCGGCCATCAGGCCGCCATGCAAATGTTGAAGGAGACTATCAACGA
15 GGAGGCAGCCGAGTGGGACAGAGTGCATCCCGTCCACGCTGGGCCAATCGCGCCCGGACAGA
TGCGGGAGCCTCGCGGCTCTGACATTGCCGGCACCACCTCTACACTGCAAGAGCAAATCGGA
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TCTCAATAAAATTGTTAGAATGTACTCTCCGACATCCATCCTTGACATTAGACAGGGACCCA
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20 CAGGAGGTCAAAAAGTGGATGACGGAGACACTCCTGGTACAGAACGCTAACCCCGACTGCAA
AACAATCTTGAAGGCACTAGGCCCGGCTGCCACCCTGGAAGAGATGATGACCGCCTGTCAGG
GAGTAGGCGGACCCCGACACAAAGCCAGAGTGTGGCCGAAGCCATGAGCCAGGTGACGAAC
TCCGCAACCATCATGATGCAGAGAGGGAATCTCCGCAATCAGCGGAAGATCGTGAAGTGTTT
CAATTGCGGCAAGGAGGGTCATACCGCCCGCAACTGTCTGGGCCCCCTAGGAAGAAAGGGTGTT
25 GGAAGTGCGGCAAGGAGGGACACCAGATGAAAGACTGTACAGAACGACAGGCCAATTTTCTT
GGAAAGATTTGGCCGAGCTACAAGGGGAGACCTGGTAATTTCTGCAAAGCAGGCCCGAGCC
CACCGCCCCCCTGAGGAATCCTTCAGGTCCGGAGTGGAGACCACAACGCCTCCCCAAAAAC
AGGAACCAATCGACAAGGAGCTGTACCCTTTAACTTCTCTGCGTTCTCTTTGGCAACGAC
CCGTCGTCTCAATAA
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MGARASVLSG GELDRWEKIR LRPGGKKKYK LKHIVWASRE LERFAVNPGL
LETSEGCRQI LGQLQPSLQT GSEELRSLYN TVATLYCVHQ RIEIKDTKEA
LDKIEEEQNK SKKKAQQAAA DTGHSNQVSQ NYPIVQNIQG QMVHQAI SPR
TLNAWVKVVE EKAFSPEVIP MFSALSEGAT PQDLN TMLNT VGGHQAMQM
35 LKETINEEAA EWDRVHPVHA GPIAPGQMRE PRGSDIAGTT STLQEQIGWM
TNNPPIPVGE IYKRWIILGL NKIVRMYSPT SILDIRQGPK EPFRDYVDRF
YKTLRAEQAS QEVKNWMTET LLVQNANPDC KTIKALGPA ATLEEMMTAC
QGVGGPGHKA RVLAEAMSQV TNSATIMMQR GNFRNQRKIV KCFNCGKEGH
TARNCRAPRK KGCWKCGKEG HQMKDCTERQ ANFLGKIWPS YKGRPGNFLQ
40 SRPEPTAPPE ESFRSGVETT TPPQKQEPID KELYPLTSLR SLFGNDPSSQ

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Figure 20

Sequence of the p17/24trNEF insert in p17/24trNEF1

5 ATGGGTGCGAGAGCGTCAGTATTAAGCGGGGAGAATTAGATCGATGGGAAAAAATTCGGTT
AAGGCCAGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAGGGAGCTAG
AACGATTCGCAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGA
CAGCTACAACCATCCCTTCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGC
AACCCTCTATTGTGTGCATCAAAGGATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGA
10 TAGAGGAAGAGCAAAACAAAAGTAAGAAAAAAGCACAGCAAGCAGCAGCTGACACAGGACAC
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15 GGAAGCTGCAGAATGGGATAGAGTGCATCCAGTGCATGCAGGGCCTATTGCACCAGGCCAGA
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TGGATGACAAATAATCCACCTATCCCAGTAGGAGAAATTTATAAAAGATGGATAATCCTGGG
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CCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTTAAAAGAAAAGGG
GGGACTGGAAGGGCTAATTCCTCCCAAAGAAGACAAGATATCCTTGATCTGTGGATCTACC
25 ACACACAAGGCTACTTCCCTGATTGGCAGAACTACACACCAGGGCCAGGGGTGAGATATCCA
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LDKIEEEQNK SKKKAQQAAA DTGHSNQVSQ NYPIVQNIQG QMVHQAI SPR
TLNAWVKVVE EKAFSPEVIP MFSALSEGAT PQDLNMTMLNT VGGHQAMQM
35 LKETINEEAA EWDRVHPVHA GPIAPGQMRE PRGSDIAGTT STLQEQIGWM
TNNPPIPVGE IYKRWII LGL NKIVRMYSPT SILDIRQGPK EPFRDYVDRF
YKTLRAEQAS QEVKNWMTET LLVQNPANPD C KTI LKALGPA ATLEEMMTAC
QGVGGPGHKA RVLVGFVPVTP QVPLRPMTYK AAVDL SHFLK EKGGLLEGLIH
SQRRQDILD L WIYHTQGYFP DWQNYTPGPG VRYPLTFGWC YKLVPVEPDK
40 VEEANKGENT SLLHPVSLHG MDDPEREVLE WRFD SHLAFH HVARELHPEY
FKNC*

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Figure 21

Sequence of the p17/24opt/trNef insert in p17/24opt/trNef1

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   CAATTGCAGCCATCCCTCCAGACCGGGAGTGAAGAGCTGAGGTCCTTGTATAACACAGTGGC
   TACCTCTACTGCGTACACCAGAGGATCGAGATTAAGGATACCAAGGAGGCCTTGGACAAAA
10  TTGAGGAGGAGCAAAACAAGAGCAAGAAGAAGGCCAGCAGGCAGCTGCTGACACTGGGCAT
   AGCAACCAGGTATCACAGAACTATCCTATTGTCCAAAACATTCAGGGCCAGATGGTTCATCA
   GGCCATCAGCCCCCGGACGCTCAATGCCTGGGTGAAGGTTGTCGAAGAGAAGGCCTTTTCTC
   CTGAGGTTATCCCCATGTTCTCCGCTTTGAGTGAGGGGGCCACTCCTCAGGACCTCAATACA
   ATGCTTAATACCGTGGGCGGCCATCAGGCCGCCATGCAAATGTTGAAGGAGACTATCAACGA
15  GGAGGCAGCCGAGTGGGACAGAGTGCATCCCGTCCACGCTGGCCCAATCGCGCCCGGACAGA
   TCGCGGAGCCTCGCGGCTCTGACATTGCCGGCACCACTCTACACTGCAAGAGCAAATCGGA
   TGGATGACCAACAATCCTCCCATCCCAGTTGGAGAAATCTATAAACGGTGGATCATTCTCGG
   TCTCAATAAAATTGTTAGAATGTACTCTCCGACATCCATCCTTGACATTAGACAGGGACCCA
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20  CAGGAGGTCAAAAAGTGGATGACGGAGACACTCCTGGTACAGAACGCTAACCCCGACTGCAA
   AACAATCTTGAAGGCACTAGGCCCGGCTGCCACCCTGGAAGAGATGATGACCGCCTGTCAGG
   GAGTAGGCGGACCCGGACACAAAGCCAGAGTGTTGATGGTGGGTTTTCCAGTCACACCTCAG
   GTACCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTAAAGAAAA
   GGGGGGACTGGAAGGGCTAATTCACCTCCCAAAGAAGACAAGATATCCTTGATCTGTGGATCT
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   CCACTGACCTTTGGATGGTGCTACAAGCTAGTACCAGTTGAGCCAGATAAGGTAGAAGAGGC
   CAATAAAGGAGAGAACACCAGCTTGTTACACCCTGTGAGCCTGCATGGGATGGATGACCCGG
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   CTGCATCCGGAGTACTTCAAGAACTGCTGA
30  MGARASVLSG  GELDRWEKIR  LRPGGKKKYK  LKHIVWASRE  LERFAVNPGL
   LETSEGCRQI  LGQLQPSLQT  GSEELRSLYN  TVATLYCVHQ  RIEIKDTKEA
   LDKIEEEQNK  SKKKAQQAAA  DTGHSNQVSQ  NYPIVQNIQG  QMVHQAI SPR
   TLNAWVKVVE  EKAFSPEVIP  MFSALSEGAT  PQDLNTMLNT  VGGHQAMQM
35  LKETINEEAA  EWDRVHPVHA  GPIAPGQMRE  PRGSDIAGTT  STLQEQIGWM
   TNNPPIPVGE  IYKRWIILGL  NKIVRMYSPT  SILDIRQGPK  EPFRDYVDRF
   YKTLRAEQAS  QEVKNWMTET  LLVQNPDC   KTILKALGPA  ATLEEMMTAC
   QGVGGPGHKA  RVL MVGFPVT  PQVPLRPMTY  KAAVDLSHFL  KEKGGLEGLI
   HSQRRQDILD  LWIYHTQGYF  PDWQNYTPGP  GVRYP LTFGW  CYKLVPVEPD
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   YFKNC*
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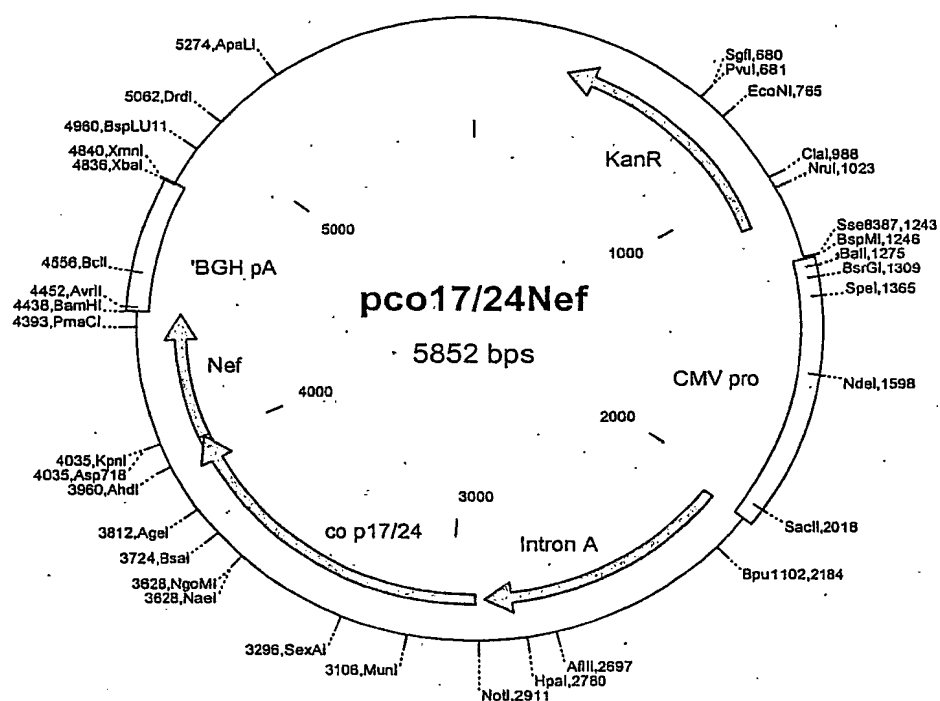


Figure 22

Sequence of RT insert of p7077-RT3:

5

10

15

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 TTTGCCATCAAGAAGAAGGACAGCACCAAGTGGCGCAAGCTGGTGGATTTCCGGGAGCTGAA
 TAAGCGGACCCAGGATTTCTGGGAGGTCCAGCTGGGCATCCCCCATCCGGCCGGCCTGAAGA
 AGAAGAAGAGCGTGACCGTGCTGGACGTGGGCGACGCTTACTTCAGCGTCCCTCTGGACGAG
 GACTTTAGAAAGTACACCGCCTTTACCATCCCATCTATCAACAACGAGACCCCTGGCATCAG
 ATATCAGTACAACGTCCTCCCCAGGGCTGGAAGGGCTCTCCCGCCATTTTCCAGAGCTCCA
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 GACGACCTGTACGTGGGCTCTGACCTGGAATCGGGCAGCATCGCACGAAGATTGAGGAGCT
 GAGGCAGCATCTGCTGAGATGGGGCCTGACCACTCCGGACAAGAAGCATCAGAAGGAGCCGC
 CATTCTGTGGATGGGCTACGAGCTCCATCCCGACAAGTGGACCGTGCAGCCTATCGTCCTC
 CCCGAGAAGGACAGCTGGACCGTGAACGACATCCAGAAGCTGGTGGGCAAGCTCAACTGGGC

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CCCTGACCGAGGTGATTCCCCTCACGGAGGAAGCCGAGCTCGAGCTGGCTGAGAACCGGGAG
ATCCTGAAGGAGCCCGTGCACGGCGTGTACTATGACCCCTCCAAGGACCTGATCGCCGAAAT
CCAGAAGCAGGGCCAGGGGCAGTGGACATAACCAGATTTACCAGGAGCCTTTCAAGAACCTCA
5 AGACCGGCAAGTACGCCCCGATGAGGGGCGCCACACCAACGATGTCAAGCAGCTGACCGAG
GCCGTCCAGAAGATCACGACCGAGTCCATCGTGATCTGGGGGAAGACACCCAAGTTCAAGCT
GCCTATCCAGAAGGAGACCTGGGAGACGTGGTGGACCGAATATTGGCAGGCCACCTGGATTC
CCGAGTGGGAGTTCGTGAATACACCTCCTCTGGTGAAGCTGTGGTACCAGCTCGAGAAGGAG
CCCATCGTGGGCGCGGAGACATTCTACGTGGACGGCGCGGCCAACCGCGAAACAAAGCTCGG
10 GAAGGCCGGGTACGTCACCAACCGGGGCCGAGAGGTCTGTCACCCTGACCGACACCACCA
ACCAGAAGACGGAGCTGCAGGCCATCTATCTCGCTCTCCAGGACTCCGGCCTGGAGGTGAAC
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CGAACTGGTGAACCAGATTATCGAGCAGCTGATCAAGAAAGAGAAGGTCTACCTCGCCTGGG
TCCCGGCCCATAGGGCATTGGCGGCAACGAGCAGGTGACAAGCTGGTGAGTGCGGGGATT
15 AGAAAGGTGCTGTAA

MGPISPIETV SVKLKPGMDG PKVKQWPLTE EKI KALVEIC TEMEKEGKIS
KIGPENPYNT PVFAIKKKDS TKWRKLVDFR ELNKRTQDFW EVQLGIPHPA
GLKKKKSVTV LDVGDAYFSV PLDEDFRKYT AFTIP SINNE TPGIRYQYNV
20 LPQGWKGSPA IFQSSMTKIL EPFRKQNPDI VIYQYMDDL Y VGSDLEIGQH
RTKIEELRQH LLRWGLTTPD KKHQKEPPFL WMGYELHPDK WTVQPIVLPE
KDSWTVNDIQ KLVGKLNWAS QIYPGIKVRQ LCKLLRGTKA LTEVIPLTEE
AELELAENRE ILKEPVHGVY YDPSKDLIAE IQKQGQGQWT YQIYQEPFKN
LKTGKYARMR GAHTNDVKQL TEAVQKITTE SIVIWGKTPK FKLPIQKETW
25 ETWWTEYWQA TWIPEWEFVN TPPLVKLWYQ LEKEPIVGAE TFYVDGAANR
ETKLKGAGYV TNRGRQKVVT LTDTTNQKTE LQAIYLALQD SGLEVNIVTD
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DKLVSAGIRK VL*

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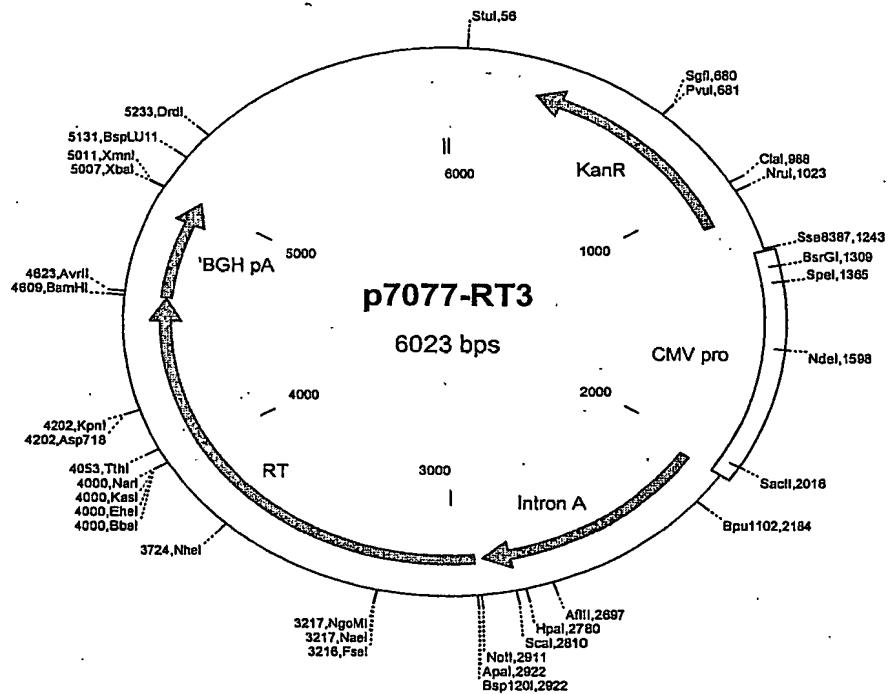


Figure 23

Sequence of the coding insert in p73i-RT3:

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 TTTGCCATCAAGAAGAAGACAGCACCAAGTGGCGCAAGCTGGTGGATTTCCGGGAGCTGAA
 TAAGCGGACCCAGGATTTCTGGGAGGTCCAGCTGGGCATCCCCCATCCGGCCGGCCTGAAGA
 10 AGAAGAAGAGCGTGACCGTGCTGGACGTGGGCGACGCTTACTTCAGCGTCCCTCTGGACGAG
 GACTTTAGAAAGTACACCGCCTTTACCATCCCATCTATCAACAACGAGACCCCTGGCATCAG
 ATATCAGTACAACGTCCTCCCCAGGGCTGGAAGGGCTCTCCCGCCATTTTCCAGAGCTCCA
 TGACCAAGATCCTGGAGCCGTTTCGGAAGCAGAACCCCGATATCGTCATCTACCAGTACATG
 GACGACCTGTACGTGGGCTCTGACCTGGAATCGGGCAGCATCGCACGAAGATTGAGGAGCT
 15 GAGGCAGCATCTGCTGAGATGGGGCCTGACCACTCCGGACAAGAAGCATCAGAAGGAGCCGC
 CATTCTGTGGATGGGCTACGAGCTCCATCCCGACAAGTGGACCGTGCAGCCTATCGTCTCTC
 CCCGAGAAGGACAGCTGGACCGTGAACGACATCCAGAAGCTGGTGGGCAAGCTCAACTGGGC
 TAGCCAGATCTATCCCGGGATCAAGGTGCGCCAGCTCTGCAAGCTGCTGCGCGGCACCAAGG
 CCCTGACCGAGGTGATTTCCCTCACGGAGGAAGCCGAGCTCGAGCTGGCTGAGAACCGGGAG
 20 ATCCTGAAGGAGCCCGTGACGGCGTGTACTATGACCCCTCCAAGGACCTGATCGCCGAAAT

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CAGCTGACCGAGGCCGTCAGAAAGATCACGACCGAGTCCATCGTGATCTGGGGGAAGACACCCAAGTTC
 AAGCTGCCATATCCAGAAGGAGACCTGGGAGACGTGGTGGACCGAATATTGGCAGGCCACCTGGATTCCC
 GAGTGGGAGTTCTGTGAATACACCTCCTCTGGTGAAGCTGTGGTACCAGCTCGAGAAGGAGCCCATCGTG
 GCGCGGAGACATTCTACGTGGACGGCGCGGCCAACCGCGAAACAAAGCTCGGGAA
 5 GGCCGGGTACGTCACCAACCGGGGCCGAGAGGTCTGTCACCCTGACCGACACCACCAACCAGAAGAC
 GGAGCTGCAGGCCATCTATCTCGCTCTCCAGGACTCCGGCCTGGAGGTGAACATCGTGACGGACAGCCA
 GTACGCGCTGGGCATTATTCAGGCCAGCCGACAGTCCGAGAGCGAACTGGTGAACCAGATTATCGA
 GCAGCTGATCAAGAAAGAGAAGGTCTACCTCGCCTGGGTCCCGGCCATAAGGGCATTGGCGGCAACGA
 GCAGGTCGACAAGCTGGTGAGTGCGGGGATTAGAAAGGTGCTGTAA

10

MGPISPIETV SYKLKPGMDG PKVKQWPLTE EKIKALVEIC TEMEKEGKIS
 KIGPENPYNT PVFAIKKDS TKWRKLVDFR ELNKRTOQDFW EVQLGIPHPA
 GLKKKKSSTV LDVGDAYFSV PLDEDFRKYT AFTIP SINNE TPGIRYQYNV
 LPQGWKGSPA IFQSSMTKIL EPFRKQNPDI VIYQYMDDLY VGS DLEIGQH
 15 RTKIEELRQH LLRWGLTPD KKHQKEPPFL WMGYELHPDK WTVQPIVLPE
 KDSWTVNDIQ KLVGKLNWAS QIYPGIKVRQ LCKLLRGTKA LTEVIPLTEE
 AELELAENRE ILKEPVHGVY YDPSKDLIAE IQKQGGQWT YQIYQEPFKN
 LKTGKYARMR GAHTNDVKQL TEAVQKITTE SIVIWGKTPK FKLPIQKETW
 ETWWTEYWQA TWIPEWEFVN TPPLVKLWYQ LEKEPIVGAE TFYVDGAANR
 20 ETKLGKAGYV TNRGRQKVV LTDTTNQKTE LQAIYLALQD SGLEVNIVTD
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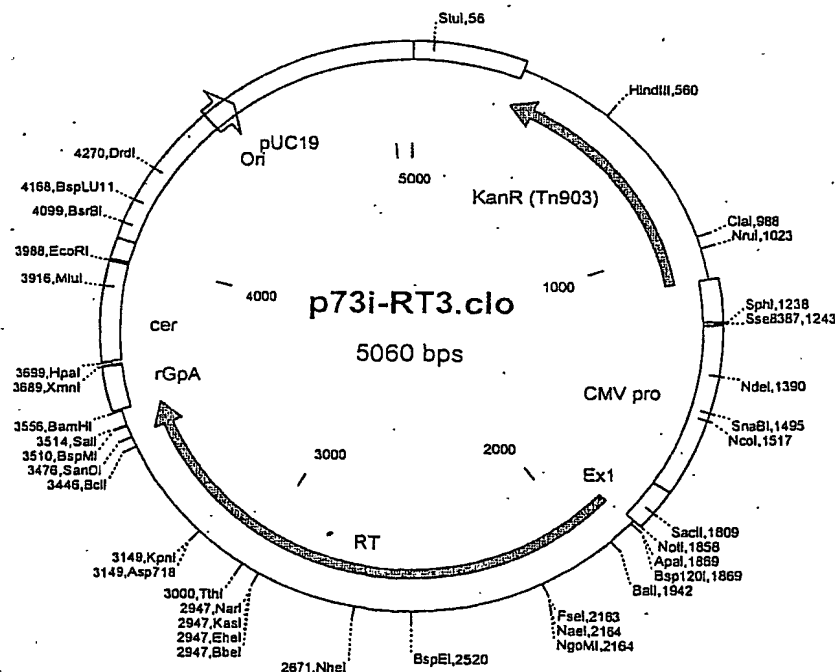


Figure 24
Responses to Gag peptide measured using IFN-gamma ELISpot at 5 days post-boost

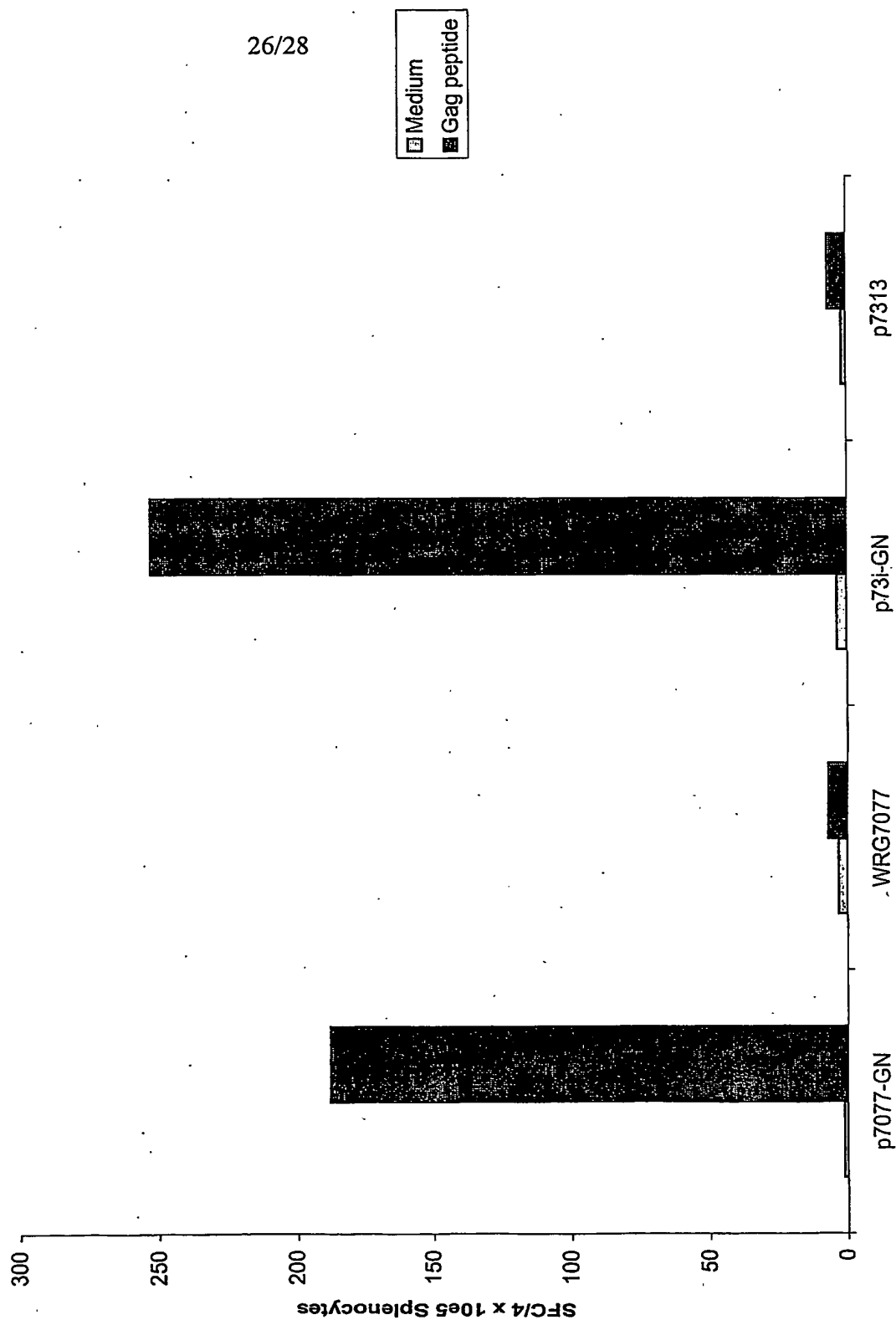


Figure 25

Responses to Nef peptide using IFN-gamma ELISPOT at 5 days post-boost

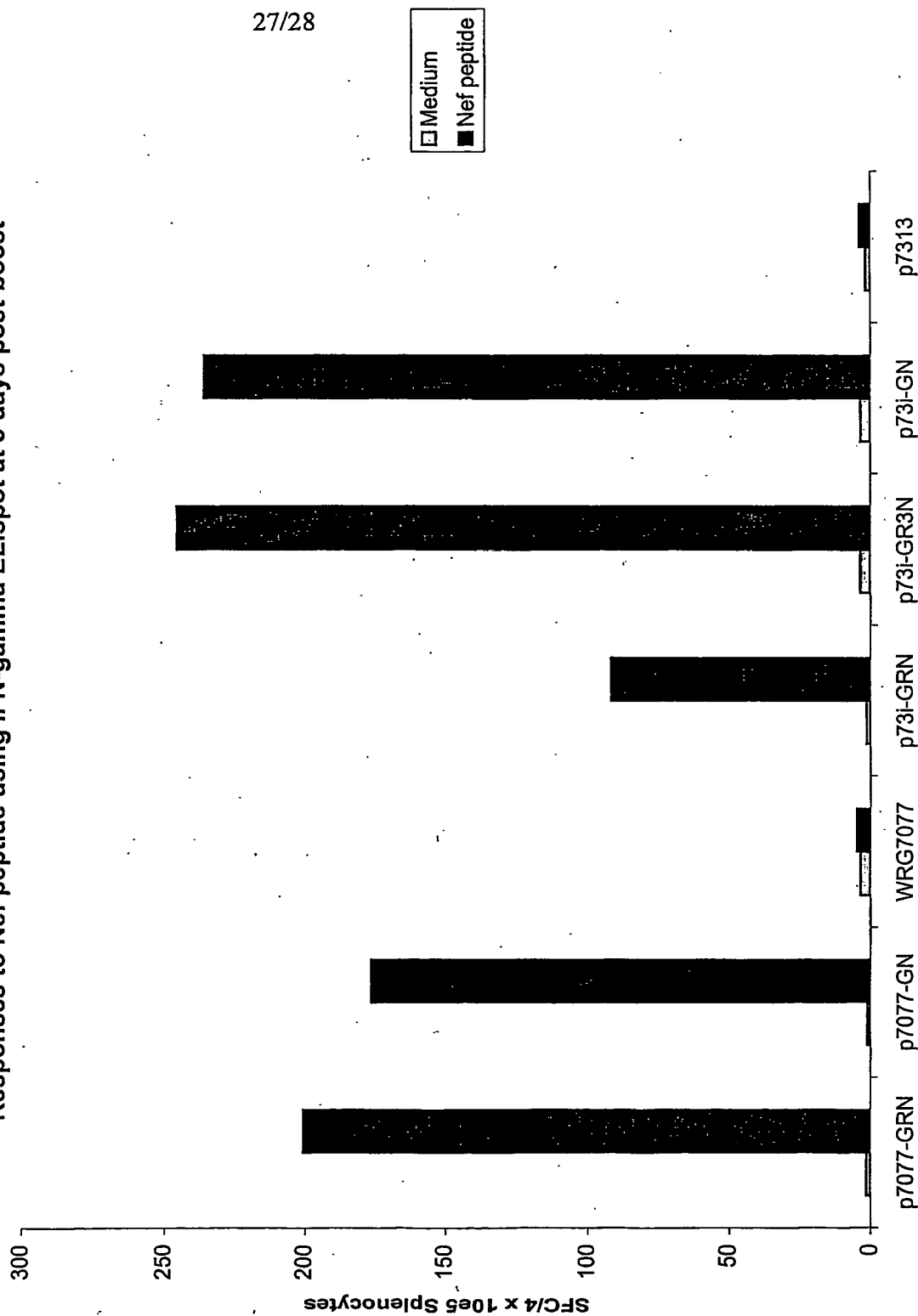
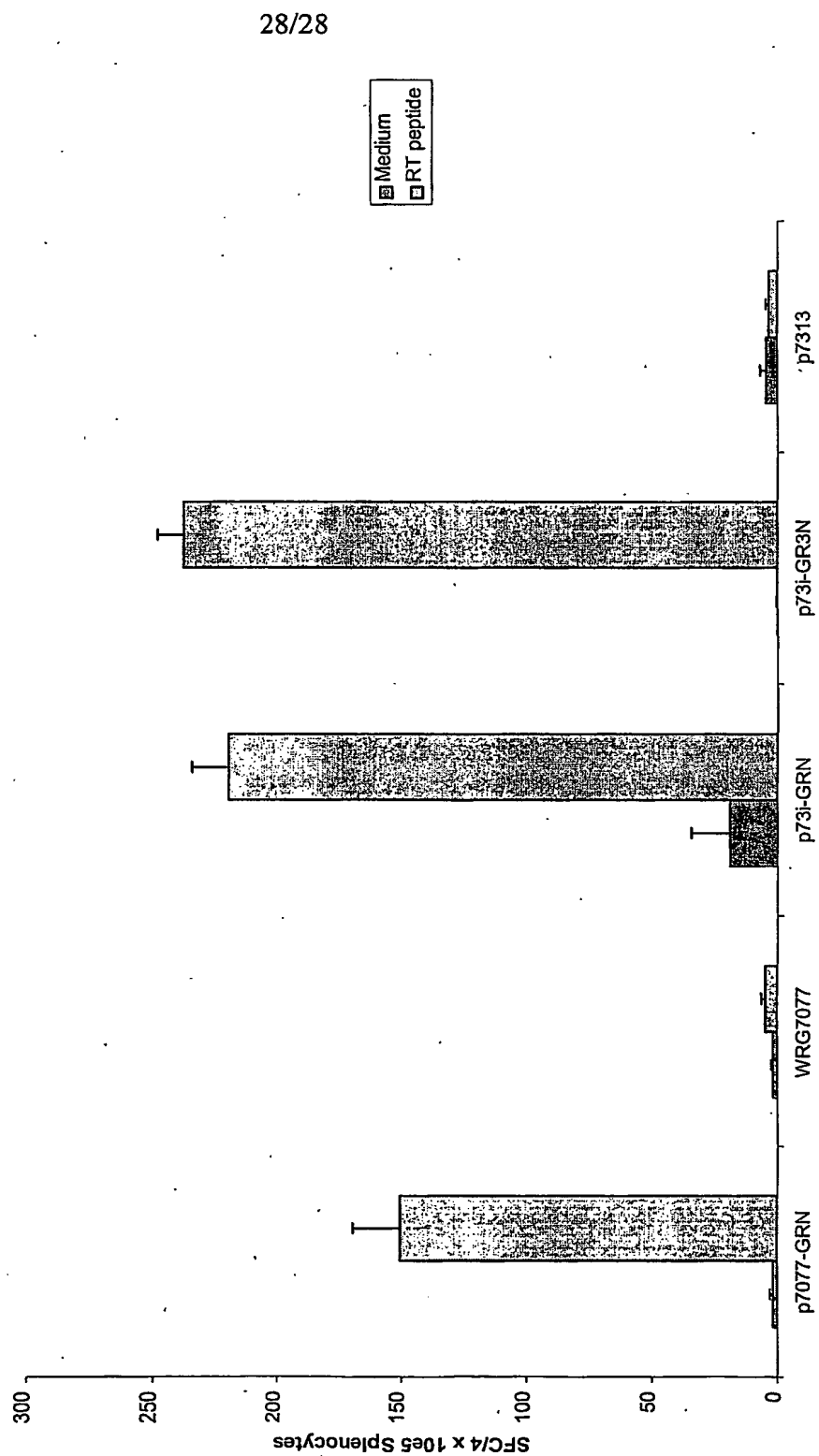


Figure 26

Responses to Rt peptide by IFN-gamma ELISpot at 5 days post-boost



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